

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P826553

Luminaire Tested: **OHBL-24SE-MFL-UNV-L830-CD-UPL36**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P826553  
REPORT IS A COMBINATION OF REPORTS P826307 AND G3-2310-221-2  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24SE-MFL-UNV-L830-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

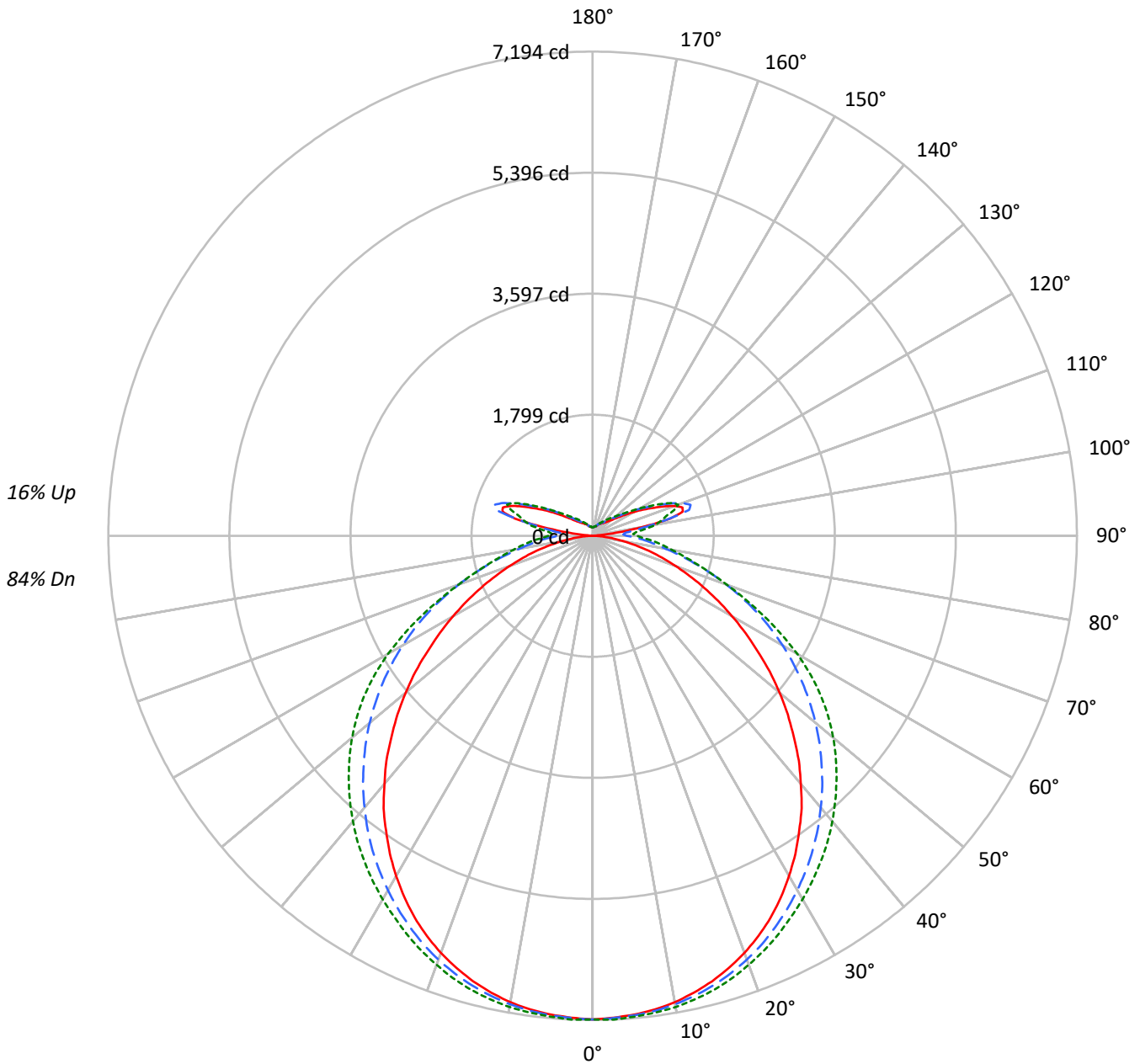
Lumens per Lamp: N/A  
Luminaire Lumens: 24844.0 lumens  
Efficiency: N/A  
Efficacy: 148.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 166.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84																			
1	105	100	95	91	100	96	92	88	89	85	83	82	80	77	76	74	72	69																			
2	95	87	80	74	91	83	77	72	77	72	68	72	68	64	66	63	60	57																			
3	87	76	68	62	83	73	66	60	68	62	57	63	58	54	59	54	51	48																			
4	79	67	59	52	76	65	57	51	60	54	48	56	51	46	52	48	44	41																			
5	73	60	51	45	69	58	50	44	54	47	42	50	44	40	47	42	38	35																			
6	67	54	45	39	64	52	44	38	49	42	36	46	40	35	43	37	33	31																			
7	62	49	40	34	59	47	39	34	44	37	32	41	35	31	39	34	30	27																			
8	58	44	36	30	55	43	35	30	40	34	29	38	32	28	36	30	26	24																			
9	54	41	33	27	52	40	32	27	37	30	26	35	29	25	33	28	24	22																			
10	50	38	30	25	48	36	29	24	34	28	23	32	27	23	31	25	22	20																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12276	12276	12276
5°	12138	12154	12249
10°	11995	12042	12236
15°	11802	11908	12204
20°	11566	11746	12134
25°	11269	11544	12064
30°	10882	11327	11996
35°	10427	11095	11951
40°	9892	10828	11914
45°	9274	10538	11854
50°	8603	10245	11777
55°	7796	9886	11595
60°	6970	9464	11137
65°	6076	8927	10314
70°	5113	8242	9434
75°	4134	7451	8972
80°	2948	6864	9398
85°	1640	7070	11781



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	681.0	2.7
10°-20°	1953.8	7.9
20°-30°	2954.8	11.9
30°-40°	3547.3	14.3
40°-50°	3663.8	14.7
50°-60°	3296.2	13.3
60°-70°	2483.0	10.0
70°-80°	1499.3	6.0
80°-90°	740.4	3.0
90°-100°	564.7	2.3
100°-110°	1335.7	5.4
110°-120°	1063.1	4.3
120°-130°	512.7	2.1
130°-140°	260.8	1.0
140°-150°	149.4	0.6
150°-160°	84.4	0.3
160°-170°	41.0	0.2
170°-180°	12.5	0.1
0°-30°	5589.7	22.5
0°-40°	9137.0	36.8
0°-60°	16097.0	64.8
0°-90°	20819.7	83.8
90°-120°	2963.5	11.9
90°-150°	3886.4	15.6
90°-180°	4024.0	16.2
0°-180°	24844.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7187	7187	7187	7187	7187	
5°	7142	7161	7152	7180	7172	678
15°	6853	6887	6918	6976	6983	1932
25°	6259	6327	6417	6517	6533	2879
35°	5351	5476	5701	5873	5909	3345
45°	4223	4436	4807	5070	5124	3261
55°	2992	3302	3803	4090	4139	2683
65°	1826	2199	2691	2825	2793	1814
75°	860	1235	1558	1599	1583	918
85°	179	473	781	888	904	207
90°	7	230	505	630	654	17
95°	66	240	488	621	652	222
105°	1387	1444	1483	1213	1130	1319
115°	972	986	1072	1120	1117	983
125°	486	508	572	595	591	457
135°	291	302	330	359	367	230
145°	220	223	230	247	253	140
155°	181	186	187	187	189	82
165°	140	142	143	144	145	40
175°	128	128	129	129	130	12
180°	127	127	127	127	127	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7187.4	7187.4	7187.4	7187.4	7187.4
2.5°	7166.3	7183.9	7173.4	7196.2	7194.5
5°	7141.6	7161.0	7152.2	7180.4	7171.6
7.5°	7099.5	7120.6	7118.8	7150.5	7146.9
10°	7037.9	7060.8	7067.8	7110.0	7110.0
12.5°	6953.5	6983.4	7000.9	7051.9	7053.7
15°	6853.2	6886.6	6918.3	6976.4	6983.4
17.5°	6731.8	6774.1	6818.0	6884.9	6893.6
20°	6594.7	6642.1	6702.0	6772.3	6782.8
22.5°	6436.3	6492.6	6570.0	6652.6	6665.0
25°	6258.6	6327.2	6416.9	6517.2	6533.1
27.5°	6056.3	6135.5	6256.9	6369.5	6383.5
30°	5836.4	5929.7	6081.0	6214.7	6237.5
32.5°	5604.3	5711.6	5898.0	6047.6	6079.2
35°	5351.0	5475.9	5701.0	5873.4	5908.6
37.5°	5101.2	5238.4	5493.4	5690.4	5732.7
40°	4809.2	4979.9	5271.8	5489.9	5541.0
42.5°	4534.8	4719.5	5050.2	5287.7	5336.9
45°	4223.4	4436.3	4807.4	5069.6	5124.1
47.5°	3931.4	4161.9	4573.5	4844.4	4900.7
50°	3623.6	3876.9	4323.7	4606.9	4665.0
52.5°	3315.8	3588.4	4065.1	4358.9	4413.4
55°	2992.1	3301.7	3803.0	4089.8	4139.0
57.5°	2691.4	3018.5	3533.9	3806.5	3836.5
60°	2394.0	2733.5	3259.5	3498.7	3509.3
62.5°	2103.8	2460.9	2978.1	3168.0	3153.9
65°	1825.8	2198.8	2691.4	2825.0	2793.3
67.5°	1558.5	1943.7	2397.6	2483.7	2441.5
70°	1305.2	1695.8	2112.6	2156.6	2117.9
72.5°	1081.8	1460.0	1824.1	1861.0	1832.9
75°	860.2	1234.8	1558.5	1599.0	1583.2
77.5°	652.6	1016.7	1314.0	1366.8	1370.2
80°	469.7	818.0	1101.1	1183.9	1194.4
82.5°	309.6	635.0	923.5	1029.0	1044.8
85°	179.4	473.2	781.0	888.3	904.1
87.5°	77.4	341.2	627.9	724.7	744.1
90°	7.4	230.3	505.4	629.9	653.7
92.5°	28.6	208.9	455.1	578.3	603.3
95°	66.5	240.3	487.8	621.1	651.9
97.5°	358.5	479.6	615.0	759.2	797.4
100°	757.8	858.3	846.2	924.7	957.4
102.5°	1181.2	1267.4	1157.9	1061.0	1045.5
105°	1386.7	1443.8	1483.2	1212.7	1130.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1140.0	1176.2	1252.2	1294.2	1271.5
115°	972.5	985.9	1072.5	1119.5	1117.2
117.5°	835.6	845.7	923.5	958.5	953.5
120°	705.4	719.4	792.1	814.2	813.9
122.5°	587.2	609.0	673.5	697.7	690.8
125°	485.8	507.9	571.8	595.1	591.1
127.5°	417.1	426.2	485.0	512.0	517.3
130°	360.3	369.5	418.5	450.2	453.6
132.5°	321.2	332.2	369.7	400.6	410.5
135°	291.4	301.5	330.1	359.3	367.2
137.5°	267.3	276.4	296.0	325.3	333.3
140°	248.6	255.9	270.3	295.1	302.2
142.5°	233.6	239.2	247.3	269.5	274.8
145°	220.4	223.3	229.8	246.6	252.8
147.5°	209.3	213.0	217.7	225.7	231.8
150°	199.0	203.6	205.6	209.2	215.4
152.5°	189.7	194.3	196.3	195.4	199.9
155°	181.4	185.9	186.9	187.0	188.8
157.5°	156.3	159.1	161.9	162.8	162.8
160°	150.8	152.6	155.4	155.4	156.3
162.5°	145.2	147.0	148.9	149.8	150.8
165°	140.5	142.4	143.3	144.2	145.2
167.5°	136.8	137.7	138.7	139.6	139.6
170°	133.1	134.0	134.9	134.9	135.9
172.5°	130.3	131.2	132.1	132.1	132.1
175°	128.4	128.4	129.3	129.3	130.3
177.5°	126.6	127.5	127.5	127.5	128.4
180°	126.6	126.6	126.6	126.6	126.6



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	1399.7	1453.6	1527.4	1420.0	1266.9
110°	1292.7	1348.8	1422.4	1418.6	1353.9



(END OF REPORT)